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Substitute for form 1449A/PTO				Application Number	09/742,171
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	12/19/00
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	A.M. Thompson
Sheet	1	of	7	Attorney Docket Number	SPLX.P0017

### U.S. PATENT DOCUMENTS

Examiner* Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number	Kind Code <sup>2</sup> (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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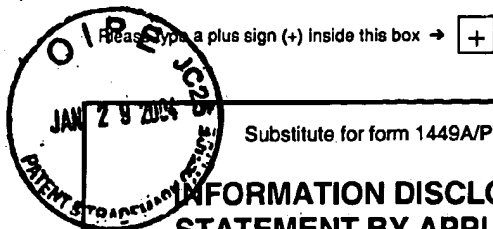
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				Examiner Name	A.M. Thompson
				Attorney Docket Number	SPLX.P0017

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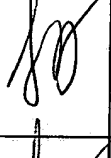


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				Examiner Name	A.M. Thompson
Sheet	3	of	7	Attorney Docket Number	SPLX.P0017

FOREIGN PATENT DOCUMENTS								
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code (if known)				
	42.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	43.	JP	H05-243379	A	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	44.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	45.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	46.	JP	H09-162279	A	Masaaki Yoshida	06-20-1997	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	47.	JP	411296560	A	Matsumoto et al.	10-29-1999	with English translation of Abstract;	

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				<b>Examiner Name</b>	A.M. Thompson
<b>Sheet</b>	4	of	7	<b>Attorney Docket Number</b>	SPLX.P0017

FOREIGN PATENT DOCUMENTS							
48.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

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### NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	49.	Ahuja, R. et al., Faster Algorithms for the Shortest Path Problem, Journal of the Association for Computing Machinery, vol. 37, No. 2, April 1990, pp. 213-223.	
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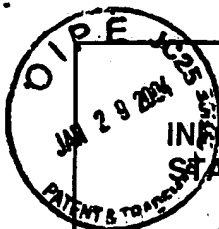
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82.	Zhang, C.X. et al., Floorplan Design Using a Hierarchical Neural Learning Algorithm, IEEE, 6/1991. pp. 2060-2063.
83.	Zhou, H. et al., An Optimal Algorithm for River Routing with Crosstalk Constraints, 1996.
84.	Zhou, H. et al., Global Routing with Crosstalk Constraints, Department of Computer Sciences, University of Texas, 1998, pp. 374-377.
85.	Zhou, H. et al., Optimal River Routing with Crosstalk Constraints, ACM Transactions on Design Automation of Electronic Systems, vol. 3, No. 3, July 1998, pp. 496-514.

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Substitute for form 1449A/PTO				Application Number	09/742,171
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				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	A.M Thompson
Sheet	1	of	4	Attorney Docket Number	SPLX.P0017

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### RELATED U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document Number	Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
	1.	2002/0100007	12-06-2200	Steven Teig et al.	Parent application; present application is a continuation of 2002/0100007.
	2.	2002/0133798	12-06-2000	Steven Teig et al.	Application regarding related placement technology
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	7.	S/N 09/739,460	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007
	8.	2002/0124231 S/N 09/739,580	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
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	14.	2002/0170027	02-20-2002	Steven Teig et al.	CIP of parent 2002/0100007.
	15.	2002/0157075	02-20-2002	Steven Teig et al.	CIP of parent 2002/0100007.

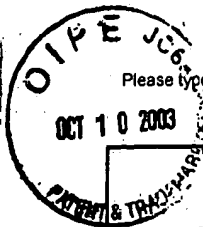
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				Filing Date	12/19/00
				First Named Inventor	St v n Teig
				Group Art Unit	2825
				Examiner Name	A.M Thompson
Sheet	2	of	4	Attorney Docket Number	SPLX.P0017

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TECHNOLOGY CENTER 2800**RELATED U.S. PATENT DOCUMENTS**

16.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.	CIP of 2002/0133798
17.	Preliminary Amendment S/N 10/329,241	12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.
18.	2003/0079193	12-07-2001	Steven Teig et al.	Application regarding related routing technology
19.	2003/0018947	12-07-2001	Steven Teig et al.	Application regarding related routing technology
20.	2002/0147958	10-19-2001	Steven Teig et al.	Application regarding related routing technology
21.	2003/0063614	01-04-2002	Steven Teig et al.	Application regarding related routing technology
22.	2003/0064559	01-04-2002	Steven Teig et al.	Application regarding related routing technology
23.	2003/0063568	01-04-2002	Steven Teig et al.	Application regarding related routing technology
24.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Application regarding related routing technology
25.	Preliminary Amendment S/N 10/040,915	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.
26.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Application regarding related routing technology
27.	Preliminary Amendment S/N 10/040,948	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.
28.	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	Application regarding related routing technology
29.	Preliminary Amendment	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not

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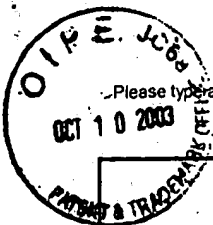
RELATED U.S. PATENT DOCUMENTS					
		S/N 10/040,954			accurately reflect the claims of S/N 10/040,954.
	30.	2003/0043827 S/N 10/040,953	01-05-2002	Steven Teig et al.	Application regarding related routing technology
	31.	Preliminary Amendment S/N 10/040,953	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not accurately reflect the claims of S/N 10/040,953.
	32.	2003/0066042 S/N 10/040,963	01-05-2002	Steven Teig et al.	Application regarding related routing technology
	33.	Preliminary Amendment S/N 10/040,963	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.
	34.	2002/0174412 S/N 10/041,942	01-07-2002	Steven Teig et al.	Application regarding related routing technology
	35.	Preliminary Amendment S/N 10/041,942	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/041,942.
	36.	2003/0088844 S/N 10/041,957	01-07-2002	Steven Teig et al.	Application regarding related routing technology
	37.	Preliminary Amendment S/N 10/041,957	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/041,957.
	38.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.	Application regarding related routing technology. Also, CIP of parent application 2002/0100007.
	39.	Preliminary Amendment S/N 10/046,864	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N 10/046,864.
	40.	2003/0066043	01-13-2002	Steven Teig et al.	Application regarding related routing

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				<b>Examiner Name</b>	A.M Thompson
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RELATED U.S. PATENT DOCUMENTS					
					technology
41.	2003/0115566	01-13-2002	Steven Teig	Application regarding related routing technology	
42.	2003/0056187 S/N 10/047,982	01-14-2002	Steven Teig et al.	Application regarding related routing technology. Also, CIP of parent application 2002/0100007.	
43.	Preliminary Amendment S/N 10/047,982	01-14-002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982	
44.	2003/0066044	01-13-2002	Steven Teig et al.	Application regarding related routing technology	
45.	2003/0066045	01-13-2002	Steven Teig et al.	Application regarding related routing technology	
46.	2003/0088845 S/N 10/047,978	01-13-2002	Steven Teig et al.	Application regarding related routing technology. Also, CIP of parent application 2002/0100007.	
47.	Preliminary Amendment for S/N 10/047,978	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088845 does not accurately reflect the claims of S/N 10/047,978.	

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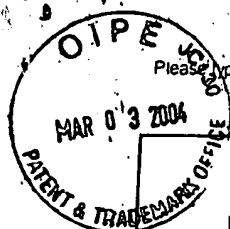
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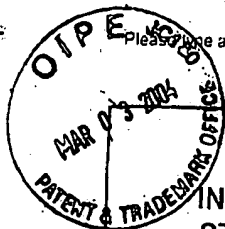
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	14.	2002/0170027	02-20-2002	Steven Teig et al.	CIP of parent 2002/0100007.
	15.	2002/0157075	02-20-2002	Steven Teig et al.	CIP of parent 2002/0100007.

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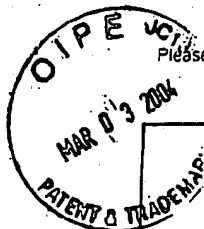
RELATED U.S. PATENT DOCUMENTS					
					technology
41.	2003/0115566	01-13-2002	Steven Teig		Application regarding related routing technology
42.	2003/0056187 S/N 10/047,982	01-14-2002	Steven Teig et al.		Application regarding related routing technology. Also, CIP of parent application 2002/0100007.
43.	Preliminary Amendment S/N 10/047,982	01-14-002	Steven Teig et al.		This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982
44.	2003/0066044	01-13-2002	Steven Teig et al.		Application regarding related routing technology
45.	2003/0066045	01-13-2002	Steven Teig et al.		Application regarding related routing technology
46.	2003/0088845 S/N 10/047,978	01-13-2002	Steven Teig et al.		Application regarding related routing technology. Also, CIP of parent application 2002/0100007.
47.	Preliminary Amendment for S/N 10/047,978	01-13-2002	Steven Teig et al.		This Preliminary Amendment is submitted as the publication 2003/0088845 does not accurately reflect the claims of S/N 10/047,978.

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Application Number</b>	09/742,171
				<b>Filing Date</b>	12/19/00
				<b>First Named Inventor</b>	Steven Teig
				<b>Group Art Unit</b>	2825
				<b>Examiner Name</b>	A.M Thompson
<b>Sheet</b>	2	<b>of</b>	4	<b>Attorney Docket Number</b>	SPLX.P0017

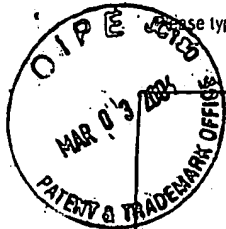
RELATED U.S. PATENT DOCUMENTS					
16.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.	CIP of 2002/0133798	
17.	Preliminary Amendment S/N 10/329,241	12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.	
18.	2003/0079193	12-07-2001	Steven Teig et al.	Application regarding related routing technology	
19.	2003/0018947	12-07-2001	Steven Teig et al.	Application regarding related routing technology	
20.	2002/0147958	10-19-2001	Steven Teig et al.	Application regarding related routing technology	
21.	2003/0063614	01-04-2002	Steven Teig et al.	Application regarding related routing technology	
22.	2003/0064559	01-04-2002	Steven Teig et al.	Application regarding related routing technology	
23.	2003/0063568	01-04-2002	Steven Teig et al.	Application regarding related routing technology	
24.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Application regarding related routing technology	
25.	Preliminary Amendment S/N 10/040,915	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.	
26.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Application regarding related routing technology	
27.	Preliminary Amendment S/N 10/040,948	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.	
28.	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	Application regarding related routing technology	
29.	Preliminary Amendment	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not	

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				<b>Filing Date</b>	12/19/00
				<b>First Named Inventor</b>	St ven Teig
				<b>Group Art Unit</b>	2825
				<b>Examiner Name</b>	A.M Thompson
<b>Sheet</b>	3	<b>of</b>	4	<b>Attorney Docket Number</b>	SPLX.P0017

RELATED U.S. PATENT DOCUMENTS					
		S/N 10/040,954			accurately reflect the claims of S/N 10/040,954.
30.	2003/0043827 S/N 10/040,953		01-05-2002	Steven Teig et al.	Application regarding related routing technology
31.	Preliminary Amendment S/N 10/040,953		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not accurately reflect the claims of S/N 10/040,953.
32.	2003/0066042 S/N 10/040,963		01-05-2002	Steven Teig et al.	Application regarding related routing technology
33.	Preliminary Amendment S/N 10/040,963		01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.
34.	2002/0174412 S/N 10/041,942		01-07-2002	Steven Teig et al.	Application regarding related routing technology
35.	Preliminary Amendment S/N 10/041,942		01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/041,942.
36.	2003/0088844 S/N 10/041,957		01-07-2002	Steven Teig et al.	Application regarding related routing technology
37.	Preliminary Amendment S/N 10/041,957		01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/041,957.
38.	2002/0199165 S/N 10/046,864		01-13-2002	Steven Teig et al.	Application regarding related routing technology. Also, CIP of parent application 2002/0100007.
39.	Preliminary Amendment S/N 10/046,864		01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N 10/046,864.
40.	2003/0066043		01-13-2002	Steven Teig et al.	Application regarding related routing

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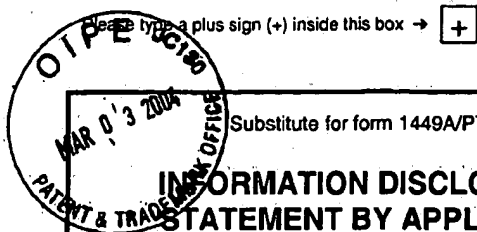
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	12/19/00
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	A.M. Thompson
Sheet	1	of	7	Attorney Docket Number	SPLX.P0017

U.S. PATENT DOCUMENTS						
Examiner* Initials	Cite No. <sup>1</sup>	U.S. Patent Document Number Kind Code <sup>2</sup> (if known)		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	2001/0009 031	A1	07-19-2001	Nitta et al.	
	2.	2002/0182 844	A1	12-05-2002	Igarashi et al.	
	3.	2003/0025 205	A1	02-06-2003	Shively	
	4.	2003/0005 399	A1	01-02-2003	Igarashi et al.	
	5.	4,593,363		06-03-1986	Burstein et al.	
	6.	5,267,176		11-30-1993	Antreich et al.	
	7.	5,587,923		12-24-1996	Wang	
	8.	5,618,744		04-08-1997	Suzuki et al.	
	9.	5,633,479		05-27-1997	Hirano	
	10.	5,637,920		06-10-1997	Loo	
	11.	5,640,327		06-17-1997	Ting	
	12.	5,663,891		09-02-1997	Bamji et al.	
	13.	5,757,089		05-26-1998	Ishizuka	
	14.	5,784,289		07-21-1998	Wang	
	15.	5,798,936		08-25-1998	Cheng	
	16.	5,838,583		11-17-1998	Varadarajan et al.	
	17.	5,889,677		03-30-1999	Yasuda et al.	
	18.	5,980,093		11-09-1999	Jones et al.	
	19.	6,070,108		05-30-2000	Andreev et al.	
	20.	6,128,767		10-03-2000	Chapman	

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				Group Art Unit	2825
				Examiner Name	A.M. Thompson
Sheet	2	of	7	Attorney Docket Number	SPLX.P0017

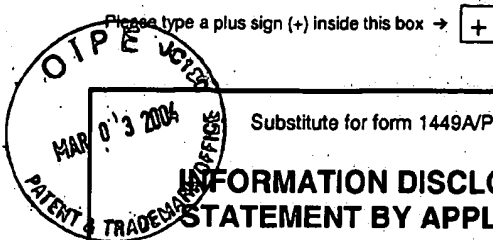
U.S. PATENT DOCUMENTS						
21.	6,209,123	B1	03-27-2001	Maziasz et al.		
22.	6,253,363	B1	06-26-2001	Gasanov et al.		
23.	6,295,634	B1	09-25-2001	Matsumoto		
24.	6,324,674	B2	11-27-2001	Andreev et al.		
25.	6,324,675	B1	11-27-2001	Dutta et al.		
26.	6,327,693	B1	12-04-2001	Cheng et al.		
27.	6,327,694	B1	12-04-2001	Kanazawa		
28.	6,330,707	B1	12-11-2001	Shinomiya et al.		
29.	6,378,121	B1	04-23-2002	Hiraga		
30.	6,407,434	B1	06-18-2002	Rostoker et al.		
31.	6,415,422	B1	07-02-2002	Mehrotra et al.		
32.	6,442,743	B1	08-27-2002	Sarrafzadeh et al.		
33.	6,448,591	B1	09-10-2002	Juengling		
34.	6,473,891	B1	10-29-2002	Shively		
35.	6,480,991	B1	11-12-2002	Cho et al.		
36.	6,490,713	B2	12-03-2002	Matsumoto		
37.	6,519,751	B2	02-11-2003	Sriram et al.		
38.	6,543,043	B1	04-01-2003	Wang et al.		
39.	6,546,540	B1	04-08-2003	Igarashi et al.		
40.	6,557,145	B2	04-29-2003	Boyle et al.		
41.	6,567,967	B2	05-20-2003	Greidinger et al.		

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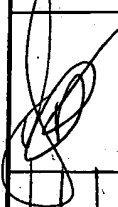
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Sheet	3	of	7	Attorney Docket Number	SPLX.P0017

FOREIGN PATENT DOCUMENTS								
Examiner* Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 8
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code (if known)				
	42.	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	43.	JP	H05-243379	A	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	44.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	45.	JP	H07-86407	A	Shinpei Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	46.	JP	H09-162279	A	Masaaki Yoshida	06-20-1997	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	47.	JP	411296560	A	Matsumoto et al.	10-29-1999	with English translation of Abstract;	

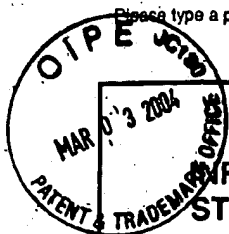
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Sheet	4	of	7	Attorney Docket Number	SPLX.P0017

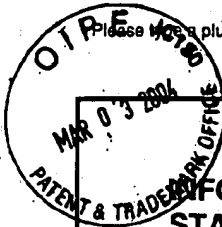
FOREIGN PATENT DOCUMENTS								
	48.	JP	2000-82743	A	Igarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

Examiner Signature		Date Considered	17 May 2004
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				<b>Filing Date</b>	12/19/00
				<b>First Named Inventor</b>	Steven Teig
				<b>Group Art Unit</b>	2825
				<b>Examiner Name</b>	A.M. Thompson
<b>Sheet</b>	5	<b>of</b>	7	<b>Attorney Docket Number</b>	SPLX.P0017

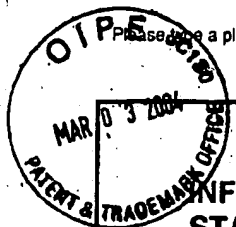
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Examiner* Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T 6
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Sheet	6	of	7	Attorney Docket Number	SPLX.P0017

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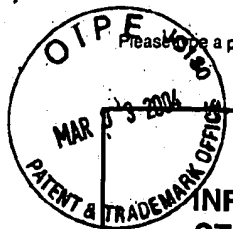
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